



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Praseodymium (III) Fluoride**

PRODUCT NUMBER: 2971

CAS NUMBER: 13709-46-1

SYNONYMS: Praseodymium trifluoride

MANUFACTURER:

ProChem, Inc.
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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H301+H311+H331 Toxic if swallowed, in contact with skin, or if inhaled.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P361	Remove/take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: Causes irritation of the eyes. May cause serious damage. Effects may not immediately appear.

SKIN CONTACT: Causes irritation, with redness and pain. Soluble fluoride may be corrosive. Effects may not appear immediately.

INHALATION: Irritating to the nose, mucous membranes, and respiratory tract.

INGESTION: May cause salivation, nausea, vomiting, diarrhea, and abdominal pain.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: PrF₃

Molecular Weight: 197.9

CHEMICAL NAME	CAS#	%
Praseodymium (III) fluoride	13709-46-1	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen fluoride and praseodymium oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate, and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Handle under dry protective gas. Ensure good ventilation.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Do not store together with acids. Store away from moisture, water, and reducing agents. Hygroscopic. Protect from humidity and water.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Praseodymium (III) fluoride	2.5 mg/m ³	TLV	ACGIH
	2.5 mg/m ³	PEL	OSHA
	2.5 mg/m ³	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

BEI-U: Biological Exposure Indices in Urine

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Light blue to green powder

ODOR: None

MOLECULAR WEIGHT: 197.9

BOILING POINT: No data available

MELTING POINT: 1395°C

SPECIFIC GRAVITY: 6.2

VAPOR DENSITY: No data available

SOLUBILITY IN WATER: Slightly soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Reducing agents, acids, water, and moisture.

DECOMPOSITION PRODUCTS: Hydrogen fluoride and praseodymium oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LC50 Inhalation – 4h - .51 mg/l. LD50 Dermal – 300 mg/kg.

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3288

Toxic solid, inorganic, n.o.s.

(Praseodymium (III) fluoride)

CLASS 6.1

PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SARA 311/312: Acute health Hazard

SARA (TITLE 313): Not Listed

CALIFORNIA PROP. 65: Not Listed

NEW JERSEY RIGHT TO KNOW COMPONENTS: Praseodymium (III) fluoride

RHODE ISLAND RIGHT TO KNOW COMPONENTS: Praseodymium (III) fluoride

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE REVISED: 02/26

SDS DEPT.